

TITLE

TRANSPARENT PARAMAGNETIC POLYMER

ABSTRACT OF THE DISCLOSURE

This invention provides a transparent, paramagnetic polymer composition in which a polymer is complexed with sufficient rare earth ions, particularly ions selected from ions in the group of elements 64 – 69, to provide a polymer with a magnetic mass susceptibility greater than  $20 \times 10^{-6}$  emu/g measured at 298 °K.

This invention provides optically responsive devices that employ these transparent, paramagnetic polymers as an element that is responsive to a magnetic field and a means for providing magnetic field.

This invention provides transparent labels or markings employing these transparent, paramagnetic polymers.

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